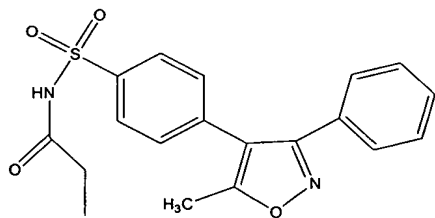
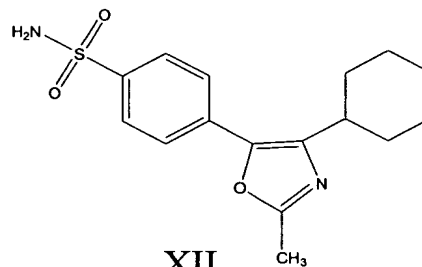


WHAT IS CLAIMED IS:

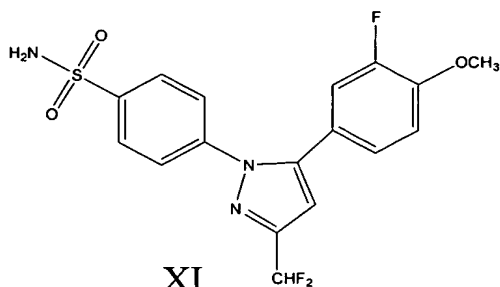
1. A method of treating a carbonic anhydrase associated disorder in a subject in need of treatment thereof, the disorder being selected from the group consisting of drug-induced edema, epilepsy, acute mountain sickness, familial periodic paralysis, metabolic alkalosis, optic neuropathy, pseudomotor cerebri, and cystoid macular edema, the method comprising administering a selective cyclooxygenase-2 inhibitor, or a pharmaceutically acceptable salt or prodrug thereof, to the subject in an amount effective to treat the disorder.
2. The method of claim 1 wherein the selective cyclooxygenase-2 inhibitor contains a sulfonamide moiety.
3. The method of claim 1 wherein the selective cyclooxygenase-2 inhibitor is a compound selected from the group consisting of:



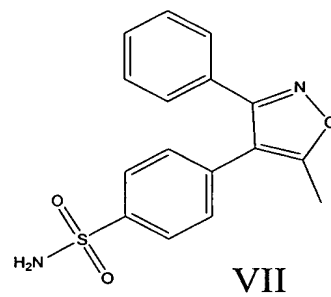
XIII



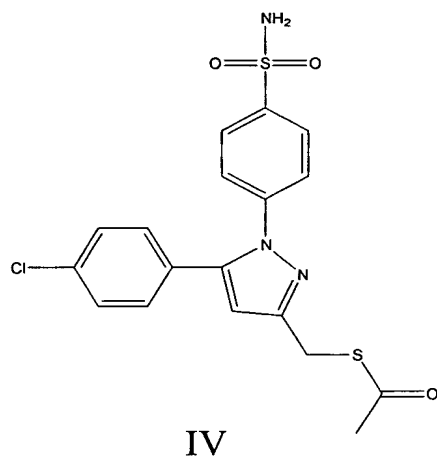
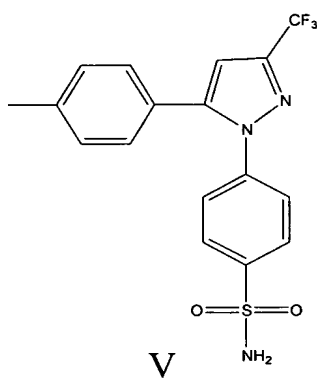
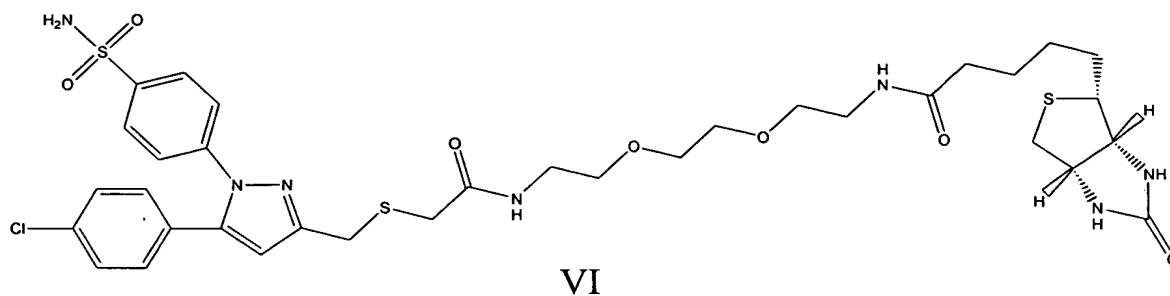
XII



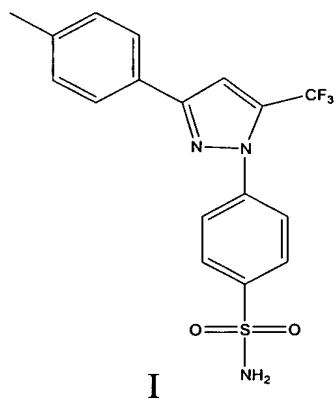
XI



VII



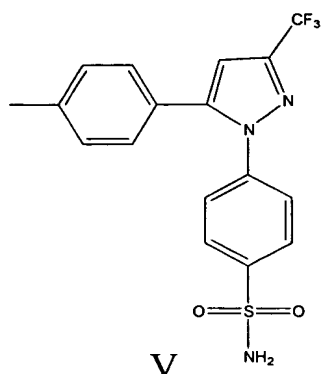
, and



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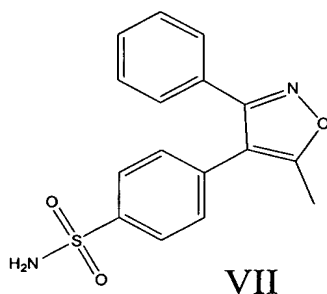
or a pharmaceutically acceptable salt or prodrug thereof.

4. The method of claim 3 wherein the selective cyclooxygenase-2 inhibitor is



or a pharmaceutically acceptable salt or prodrug thereof.

5. The method of claim 3 wherein the selective cyclooxygenase-2 inhibitor is

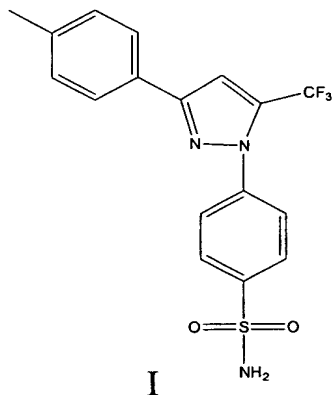


or a pharmaceutically acceptable salt or prodrug thereof.

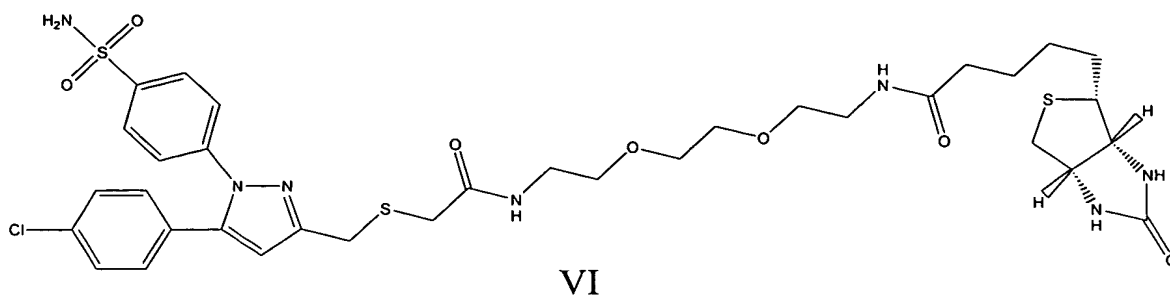
6. A method of treating a carbonic anhydrase associated disorder in a subject in need of treatment thereof, the method comprising administering a selective cyclooxygenase-2 inhibitor, or a pharmaceutically acceptable salt or prodrug thereof, to the subject in an amount effective to treat the disorder,
- 5 wherein the selective cyclooxygenase-2 inhibitor is a compound selected from the group consisting of:

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7. The method of claim 6 wherein the selective cyclooxygenase-2 inhibitor is



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or a pharmaceutically acceptable salt or prodrug thereof.

9. The method of claim 6 wherein the carbonic anhydrase associated disorder is selected from the group consisting of drug-induced edema, epilepsy, acute mountain sickness, familial periodic paralysis, metabolic alkalosis, optic neuropathy, pseudomotor cerebri, and cystoid macular edema.

10. The method of claim 9 wherein the carbonic anhydrase associated disorder is acute mountain sickness.

11. The method of claim 9 wherein the carbonic anhydrase associated disorder is familial periodic paralysis.

12. The method of claim 9 wherein the carbonic anhydrase associated disorder is cystoid macular edema.